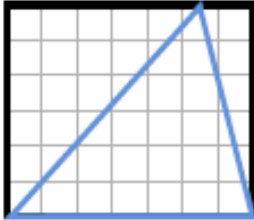
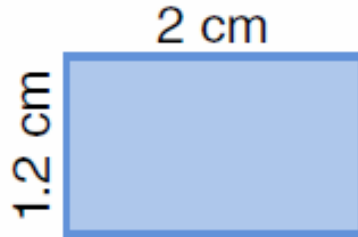


Area — the amount of surface inside a 2-dimensional figure, commonly measured in square units such as *square feet* or *square centimeters*

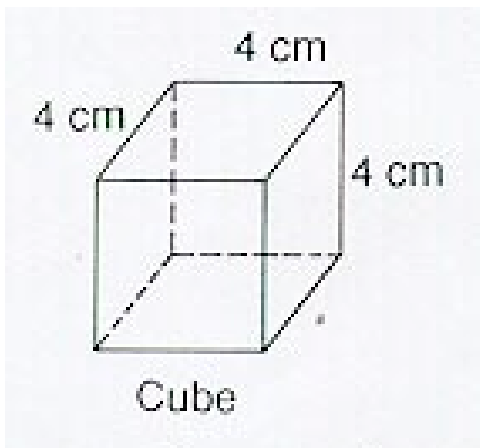


A triangle with area
21 square units



A rectangle with area
 $1.2 \text{ cm} * 2 \text{ cm} = 2.4 \text{ square centimeters}$

Capacity/Volume of a container— the amount of space occupied by a 3-dimensional figure; the amount a container can hold; measured in units like cups, gallons, or liters



Centimeter (cm) – a metric unit of length, equivalent to 10 millimeters, $\frac{1}{10}$ of a decimeter, and $\frac{1}{100}$ of a meter

$$\text{Centi} = \frac{1}{100}$$

A centimeter is approximately the width of your pointer finger.

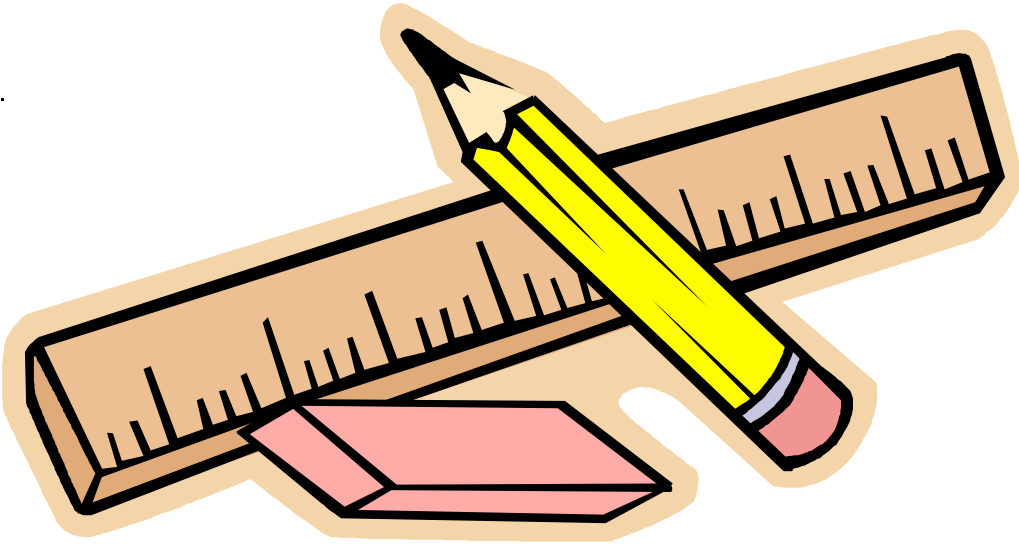


Decimeter (dm) – a metric unit of length equivalent to $\frac{1}{10}$ of a meter or 10 centimeters

$$\text{Deci} = \frac{1}{10}$$

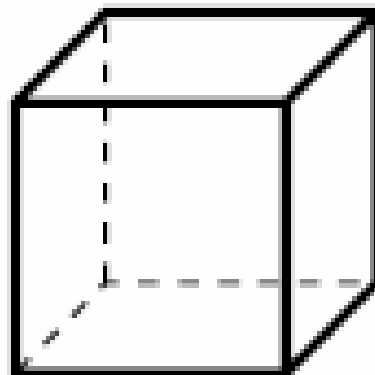


Foot (ft) – a U.S. customary unit of length equal to 12 inches or $\frac{1}{3}$ of a yard



Gram (g) – a metric unit of measure for mass equal to $\frac{1}{1,000}$ of a kilogram

**1 gram = 1 cubic
centimeter**



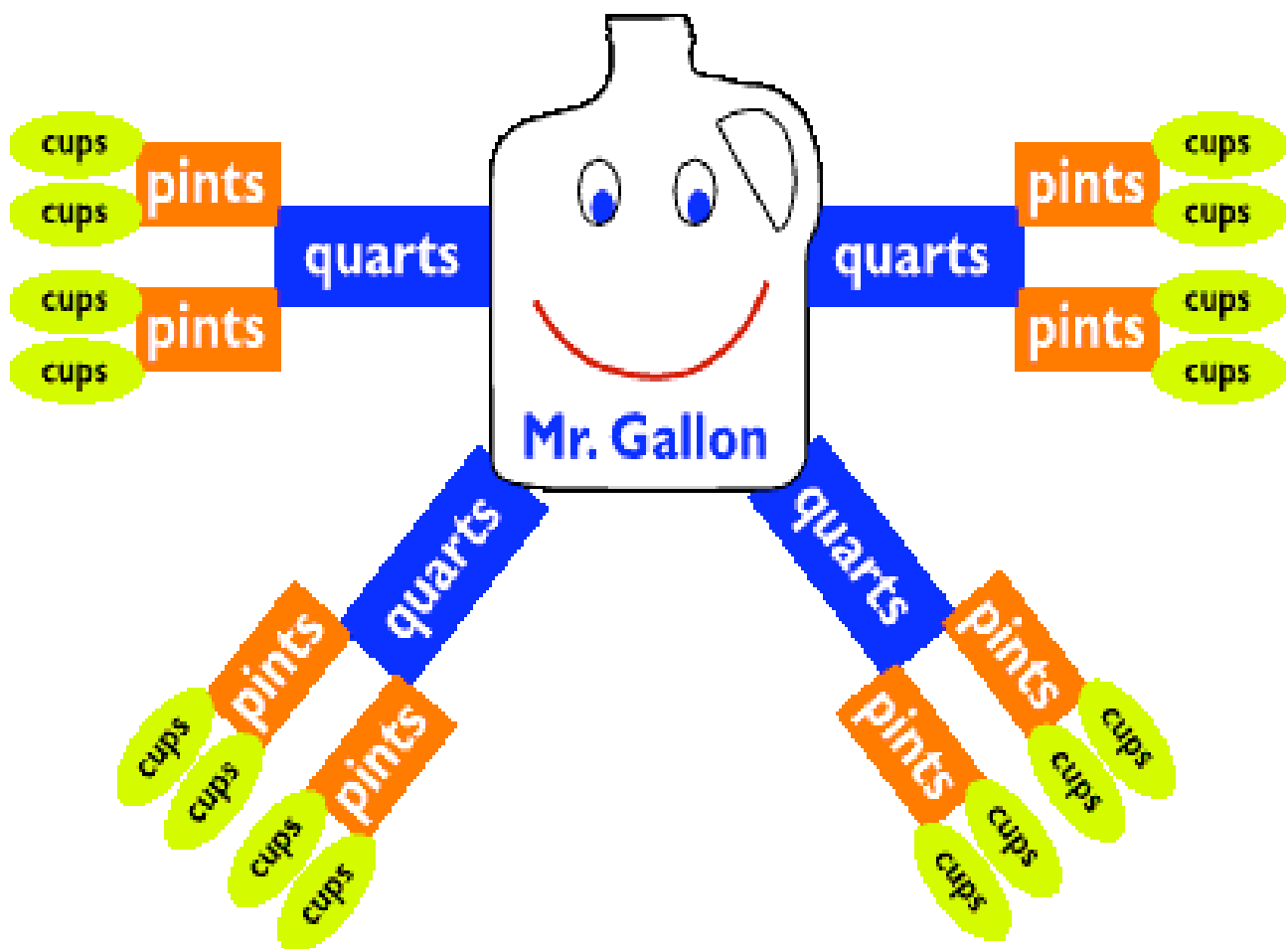
Gallon – a U.S. customary unit of measure for capacity or volume

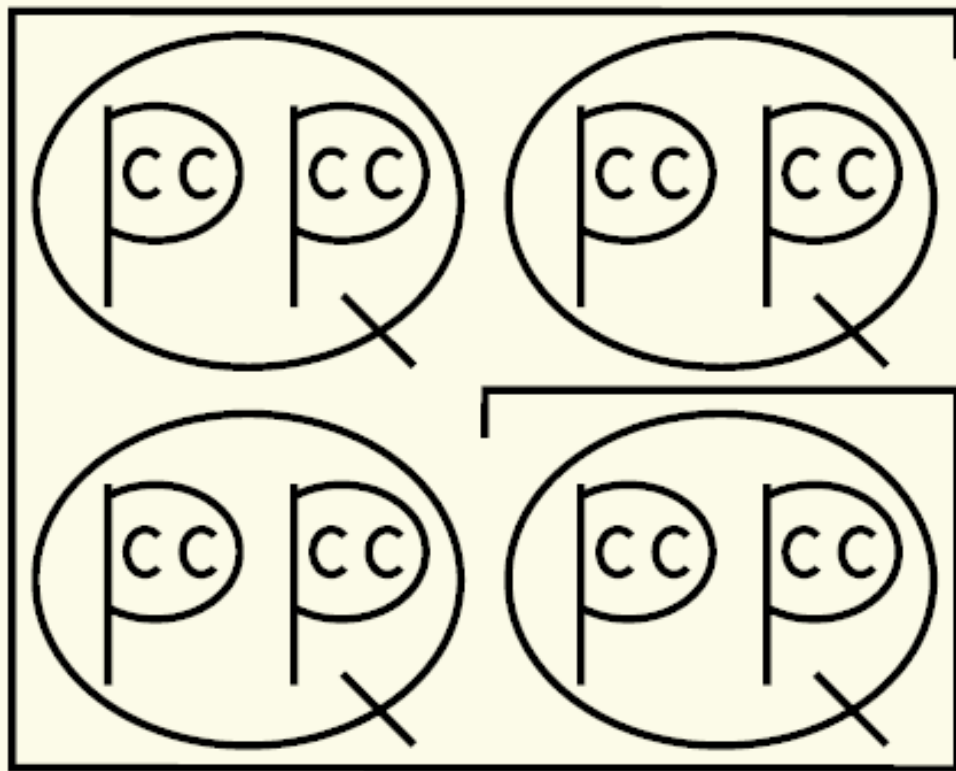
Quart - a U.S. customary unit of measure for capacity or volume; 4 quarts = 1 gallon

Pint - a U.S. customary unit of measure for capacity or volume; 2 pints = 1 quart

Cup - a U.S. customary unit of measure for capacity or volume; 2 cups = 1 pint

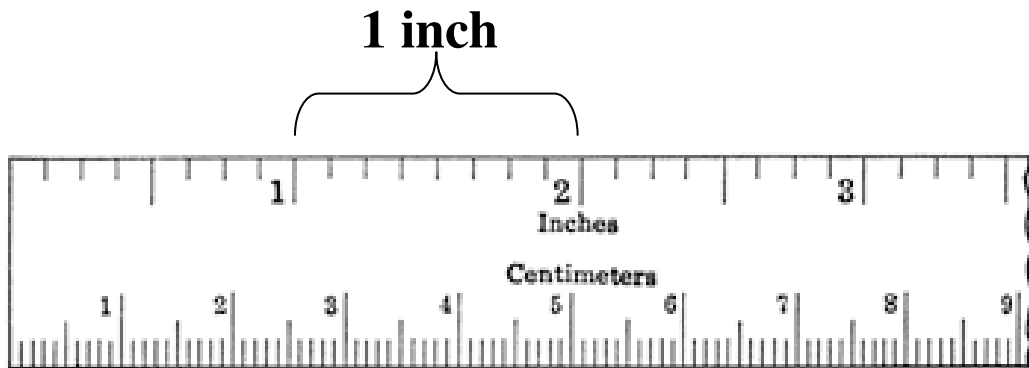
Ounce - a U.S. customary unit of measure for capacity or volume; 8 ounces = 1 cup



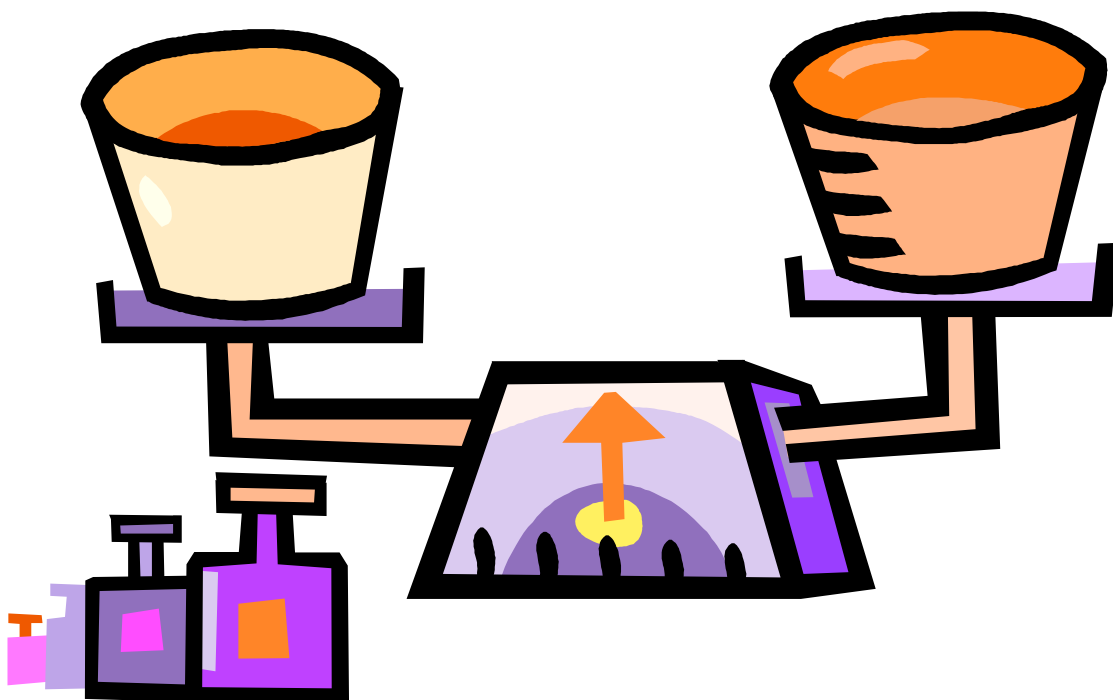


The G represents *gallon*. The Q represents *quart*.
The P represents *pint*. The C represents *cup*.

Inch (in) – a U.S. customary unit of length equal to $\frac{1}{12}$ of a foot



Kilogram (kg) – a metric unit of mass equal to 1,000 grams



Kilometer – (km) – a metric unit of length equal to 1,000 meters

One Kilometer is equal to:

1,000 meters (m)

10,000 decimeters (dm)

100,000 centimeters (cm)

1,000,000 millimeters (mm)

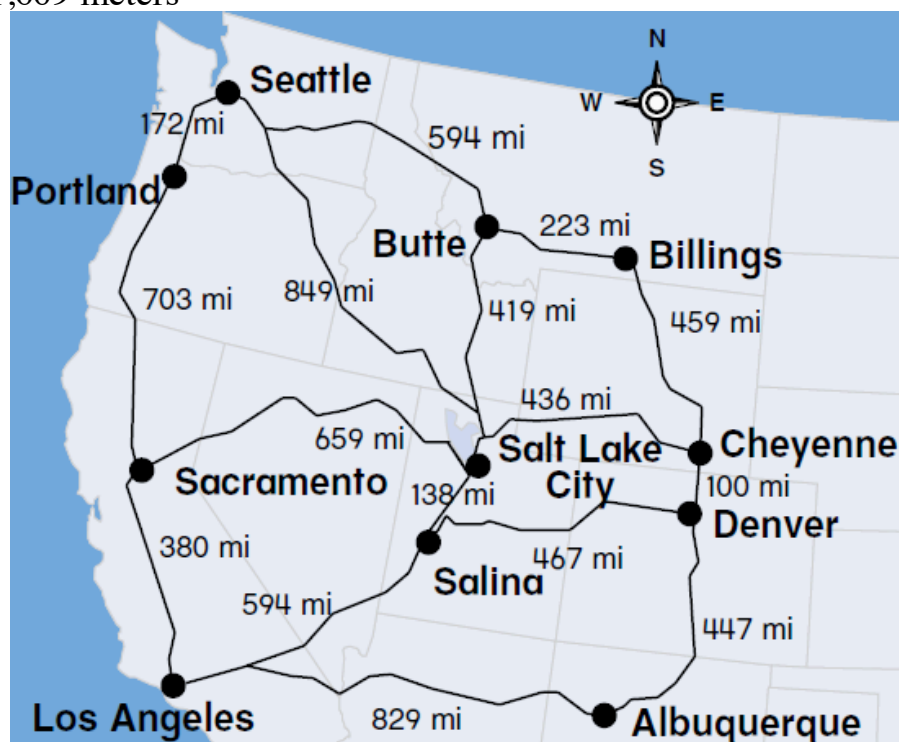
Liter (L) – a metric unit of measure for volume or capacity



Meter (m) – the basic metric unit of length from which other metric units of length are derived



Mile (mi) – a U.S. customary unit of length equal to 5,280 feet or 1,760 yards or 1,609 meters



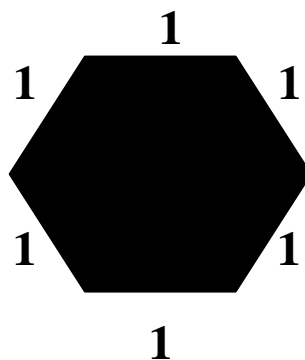
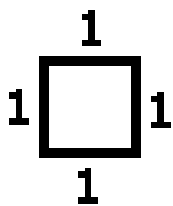
Millimeter (mm) – $\frac{1}{1000}$ of a meter

Milli = $\frac{1}{1000}$

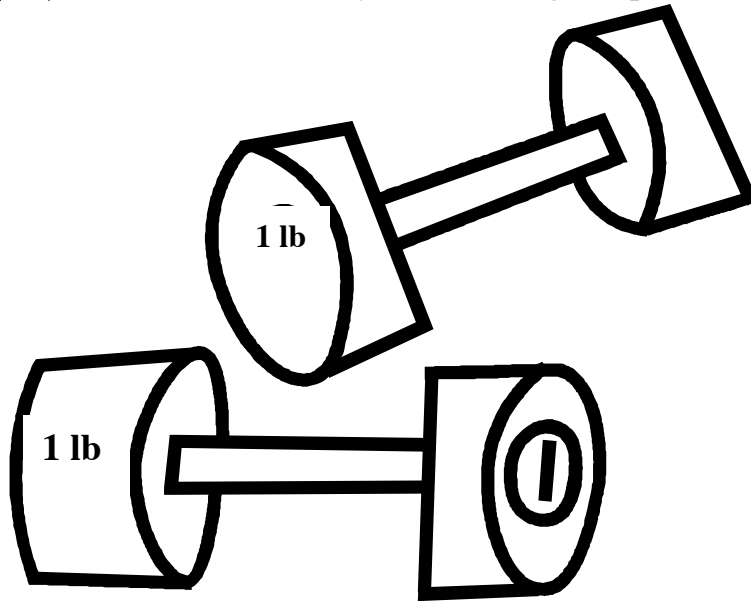
1 millimeter



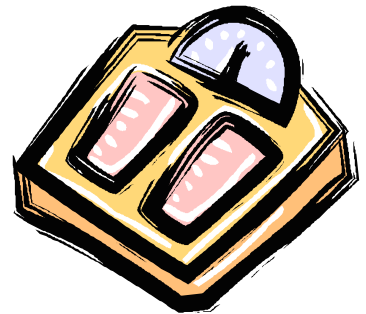
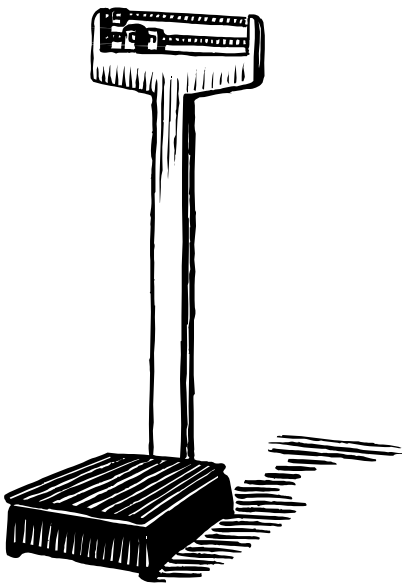
Perimeter – the distance around the boundary of a 2-dimensional figure.



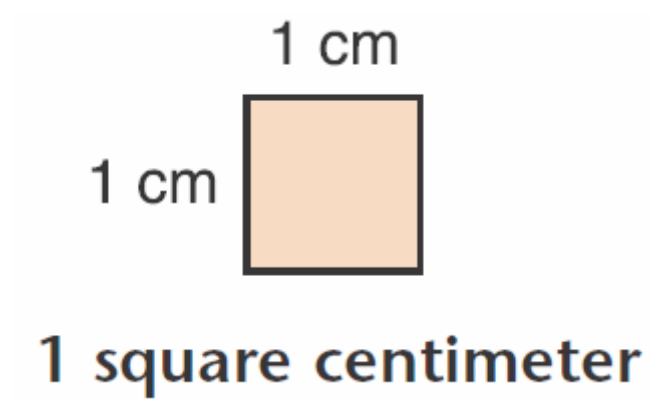
Pound (lb) — a U.S. customary unit of weight equal to 16 ounces



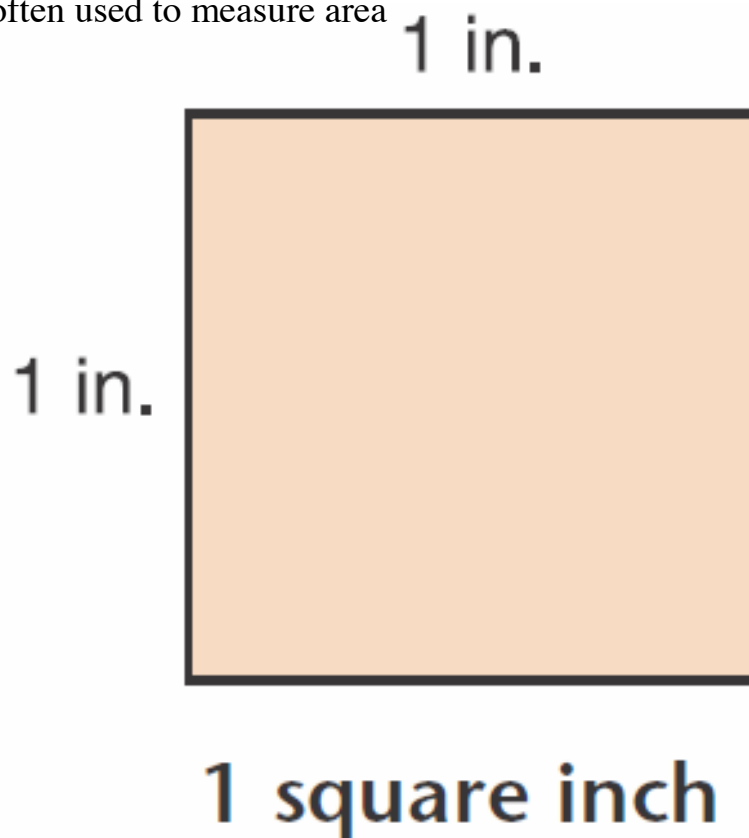
Scale — a tool used for measuring weight



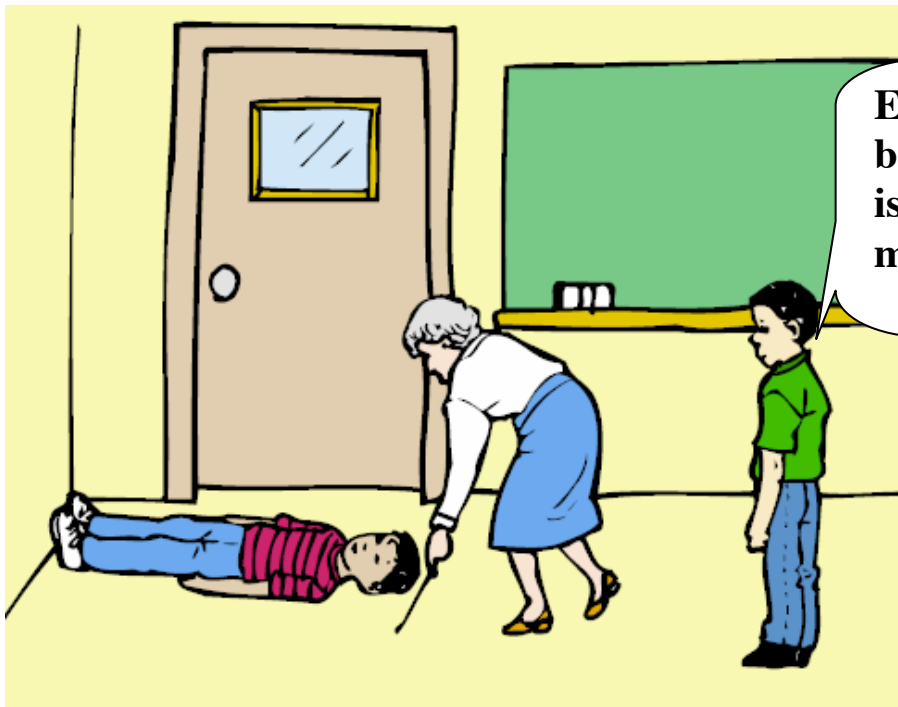
Square Centimeters – a square that measures exactly 1 centimeter in length by 1 centimeter in width; often used to measure area



Square Inch – a square that measures exactly 1 inch in length by 1 inch in width; often used to measure area

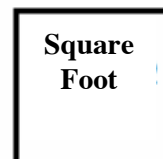
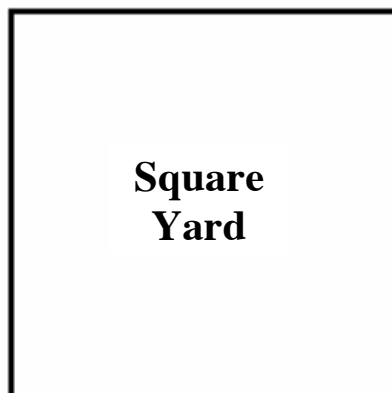


Standard Unit — a unit of measure that has been defined by a recognized authority such as a government or standards organization



Excuse me, Mrs. Jones, but are you sure Tommy is an acceptable unit of measure for length?

Square units — a unit to measure area

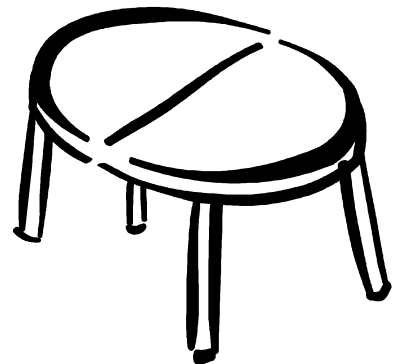
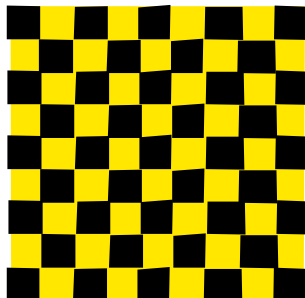


Square units

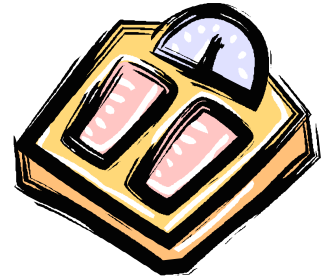
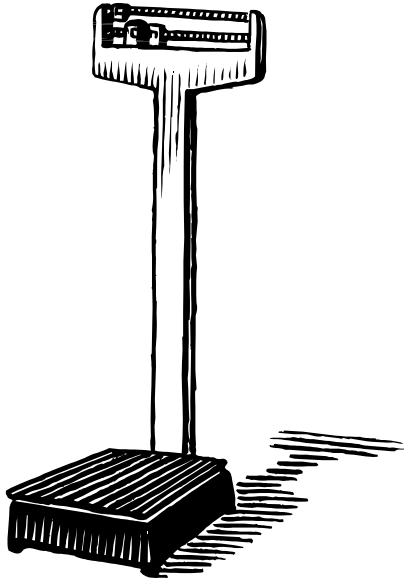
Standard Unit — when people agree to use the same unit of measure, it is called a standard unit



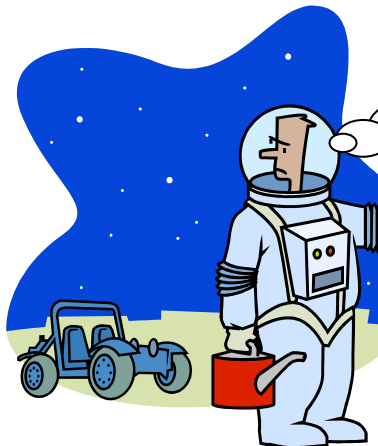
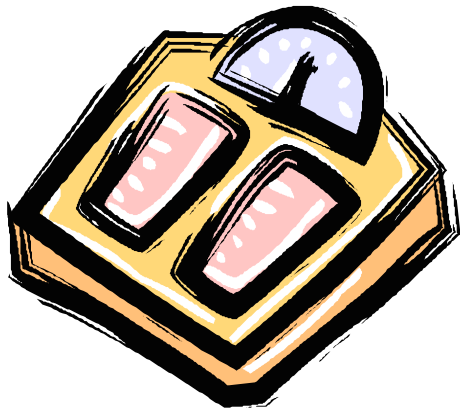
Surface — the top or outside of an object, like a tabletop, the floor, a checkerboard, the cover of a book, etc



Weigh – to determine the pull of gravity on an object; to determine the amount of mass in an object

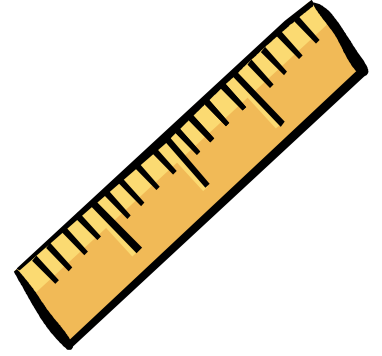
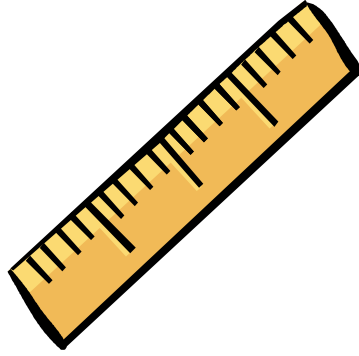
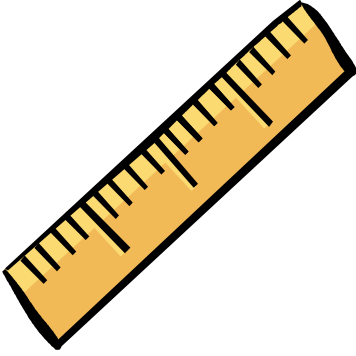


Weight – a measure of how heavy something is; the force of gravity on an object; an object's *mass* (how much space it takes up) is constant, but its varies according to the strength of gravity



Hmmmm . . . I
seem to weigh
less on the
moon . . .

Yard – a U.S. customary unit of length equal to 3 feet or 36 inches



3 feet = 1 yard